



\*\*FILE\*\* ID\*\*SCRNEWDEL

L 4

EDTS  
V04-

```
1 0001 0 XTITLE 'EDT$SCRNEWDEL - delete a line from the screen'
2 0002 0 MODULE EDT$SCRNEWDEL(
3 0003 0           IDENT = 'VO4-000'
4 0004 0           ) =
5 0005 1 BEGIN
6
7 0007 1 ****
8 0008 1 *
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27 0027 1 *
28 0028 1 ****
29 0029 1 :
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: EDT -- The DEC Standard Editor
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This module updates the screen information data structure to
37 0037 1 reflect the deletion of a line.
38 0038 1
39 0039 1 ENVIRONMENT: Runs at any access mode - AST reentrant
40 0040 1
41 0041 1 AUTHOR: Sharon M. Burlingame, CREATION DATE: September 15, 1982
42 0042 1
43 0043 1 MODIFIED BY:
44 0044 1
45 0045 1 1-001 - Original. SMB 15-Sep-1982.
46 0046 1 1-002 - Fix up the original to conform to new design. SMB 10-Oct-1982
47 0047 1 1-003 - Add more code to remove existing bugs. SMB 26-Oct-1982
48 0048 1 1-004 - Change updating of the screen pointers. JBS 29-Oct-1982
49 0049 1 1-005 - Don't set the rebuild flag. JBS 03-Jan-1983
50 0050 1 1-006 - Also invalidate EDTSSA_CSR SCR PTR if it is deleted. JBS 20-May-1983
51 0051 1 1-007 - Improve the appearance of the listing. JBS 17-Jun-1983
52 0052 1 --
53 0053 1
```

```
55      0054 1 %SBTTL 'Declarations'  
56      0055 1 !  
57      0056 1 TABLE OF CONTENTS:  
58      0057 1 !  
59      0058 1 REQUIRE 'EDTSRC:TRAROUNAM';  
60      0059 1 FORWARD ROUTINE  
61      0498 1 EDT$SSC_LNDEL : NOVALUE;  
62      0499 1 !  
63      0500 1 INCLUDE FILES:  
64      0501 1 !  
65      0502 1 !  
66      0503 1 !  
67      0504 1 !  
68      0505 1 !  
69      0506 1 REQUIRE 'EDTSRC:EDTREQ';  
70      0641 1 !  
71      0642 1 !  
72      0643 1 MACROS:  
73      0644 1 !  
74      0645 1 !  
75      0646 1 !  
76      0647 1 EQUATED SYMBOLS:  
77      0648 1 !  
78      0649 1 !  
79      0650 1 !  
80      0651 1 OWN STORAGE:  
81      0652 1 !  
82      0653 1 !  
83      0654 1 !  
84      0655 1 EXTERNAL REFERENCES:  
85      0656 1 !  
86      0657 1 ! In the routine
```

```
88 0658 1 %SBTTL 'EDT$SSC_LNDEL - delete a line from the screen'
89 0659 1
90 0660 1 GLOBAL ROUTINE EDT$SSC_LNDEL (
91 0661 1     SCRPTR
92 0662 1     ) : NOVALUE =
93 0663 1
94 0664 1     ++
95 0665 1     FUNCTIONAL DESCRIPTION:
96 0666 1
97 0667 1     Update the screen line information structure by
98 0668 1     releasing the memory to the pool of available storage.
99 0669 1     Update various screen line pointers as necessary.
100 0670 1
101 0671 1     FORMAL PARAMETERS:
102 0672 1
103 0673 1     NONE
104 0674 1
105 0675 1     IMPLICIT INPUTS:
106 0676 1
107 0677 1     EDT$SG_MEM_CNT
108 0678 1     EDT$SA_BOT_SCRPTR
109 0679 1     EDT$SA_EOB_SCRPTR
110 0680 1     EDT$SA_TOP_SCRPTR
111 0681 1     EDT$SA_FST_AVLN
112 0682 1     EDT$SA_FST_SCRPTR
113 0683 1     EDT$SA_LST_SCRPTR
114 0684 1     EDT$SA_CSR_SCRPTR
115 0685 1     EDT$SL_CUR_SCRLN
116 0686 1
117 0687 1     IMPLICIT OUTPUTS:
118 0688 1
119 0689 1     EDT$SG_MEM_CNT
120 0690 1     EDT$SA_BOT_SCRPTR
121 0691 1     EDT$SA_EOB_SCRPTR
122 0692 1     EDT$SA_TOP_SCRPTR
123 0693 1     EDT$SA_FST_AVLN
124 0694 1     EDT$SA_FST_SCRPTR
125 0695 1     EDT$SA_LST_SCRPTR
126 0696 1     EDT$SA_CSR_SCRPTR
127 0697 1     EDT$SL_CUR_SCRLN
128 0698 1
129 0699 1     ROUTINE VALUE:
130 0700 1
131 0701 1     NONE
132 0702 1
133 0703 1     SIDE EFFECTS:
134 0704 1
135 0705 1     NONE
136 0706 1
137 0707 1     --
138 0708 1
139 0709 2     BEGIN
140 0710 2
141 0711 2     EXTERNAL
142 0712 2     EDT$SG_MEM_CNT,           | Allocated memory count
143 0713 2     EDT$SA_BOT_SCRPTR : REF SCREEN_LINE, | Bottom screen pointer
144 0714 2     EDT$SA_EOB_SCRPTR : REF SCREEN_LINE, | EOB screen pointer
```

145 0715 2 EDTSSA\_TOP\_SCRPTR : REF SCREEN\_LINE, | Top screen pointer  
146 0716 2 EDTSSA\_CSR\_SCRPTR : REF SCREEN\_LINE, | Current screen pointer  
147 0717 2 EDTSSA\_FST\_AVLN : REF SCREEN\_LINE, | First available screen info memory  
148 0718 2 EDTSSA\_FST\_SCRPTR : REF SCREEN\_LINE, | Pointer to first screen line info  
149 0719 2 EDTSSA\_LST\_SCRPTR : REF SCREEN\_LINE; | Pointer to last screen line info  
150 0720 2  
151 0721 2 MAP SCRPTR : REF SCREEN\_LINE; ! Screen pointer parameter  
152 0722 2  
153 0723 2 LOCAL  
154 0724 2 NXT\_ADDR : REF SCREEN\_LINE, ! Address of next line info  
155 0725 2 PREV\_ADDR : REF SCREEN\_LINE; ! Address of previous line info  
156 0726 2  
157 0727 2  
158 0728 2 !+ Find the next and previous pointers of the line being deleted.  
159 0729 2 !-  
160 0730 2 NXT\_ADDR = .SCRPTR [SCR\_NXT\_LINE];  
161 0731 2 PREV\_ADDR = .SCRPTR [SCR\_PRV\_LINE];  
162 0732 2 !+  
163 0733 2 ! Check for deleting the first line of the screen data base.  
164 0734 2 !-  
165 0735 2  
166 0736 2  
167 0737 2 IF (.EDTSSA\_FST\_SCRPTR EQLA .SCRPTR)  
168 0738 2 THEN  
169 0739 2 BEGIN  
170 0740 2 EDTSSA\_FST\_SCRPTR = .NXT\_ADDR;  
171 0741 2 EDTSSA\_FST\_SCRPTR [SCR\_PRV\_LINE] = 0;  
172 0742 2 END;  
173 0743 2  
174 0744 2 !+  
175 0745 2 ! Check for deleting the last line of the screen data base.  
176 0746 2 !-  
177 0747 2  
178 0748 2 IF (.SCRPTR EQLA .EDTSSA\_LST\_SCRPTR)  
179 0749 2 THEN  
180 0750 2 BEGIN  
181 0751 2 EDTSSA\_LST\_SCRPTR = .PREV\_ADDR;  
182 0752 2 EDTSSA\_LST\_SCRPTR [SCR\_NXT\_LINE] = 0;  
183 0753 2 END;  
184 0754 2  
185 0755 2 !+  
186 0756 2 ! Check for EOB deleted off the screen  
187 0757 2 !-  
188 0758 2  
189 0759 2 IF (.EDTSSA\_EOB\_SCRPTR EQLA .SCRPTR) THEN EDTSSA\_EOB\_SCRPTR = 0;  
190 0760 2  
191 0761 2 !+  
192 0762 2 ! Check for deleting the top line from the data base.  
193 0763 2 !-  
194 0764 2  
195 0765 2 IF (.EDTSSA\_TOP\_SCRPTR EQLA .SCRPTR) THEN EDTSSA\_TOP\_SCRPTR = 0;  
196 0766 2  
197 0767 2 !+  
198 0768 2 ! Check for deleting the bottom line from the data base.  
199 0769 2 !-  
200 0770 2  
201 0771 2 IF (.EDTSSA\_BOT\_SCRPTR EQLA .SCRPTR) THEN EDTSSA\_BOT\_SCRPTR = 0;

```
202      0772 2
203      0773 2  !+
204      0774 2  | Check for deleting the current line from the data base. This will likely
205      0775 2  | cause the screen data base to get rebuilt.
206      0776 2  |
207      0777 2
208      0778 2  IF (.EDTSSA_CSR_SCRPTR EQA .SCRPTR) THEN EDTSSA_CSR_SCRPTR = 0;
209      0779 2
210      0780 2  !+
211      0781 2  | Fix up the previous and next pointers.
212      0782 2  |
213      0783 2
214      0784 2  IF (.PREV_ADDR NEQA 0) THEN PREV_ADDR [SCR_NXT_LINE] = .NXT_ADDR;
215      0785 2
216      0786 2  IF (.NXT_ADDR NEQA 0) THEN NXT_ADDR [SCR_PRV_LINE] = .PREV_ADDR;
217      0787 2
218      0788 2  !+
219      0789 2  | The line being deleted is indicated by SCRptr. If there
220      0790 2  | are no screen line buffers in the free list, then start
221      0791 2  | a new list; otherwise add the memory to the front of the current list.
222      0792 2  |
223      0793 2  SCRptr [SCR_NXT_LINE] = .EDTSSA_FST_AVLN;
224      0794 2  SCRptr [SCR_PRV_LINE] = -1;           ! For debugging
225      0795 2  EDTSSA_FST_AVLN = SCRptr;
226      0796 2  EDTSSG_MEM_CNT = .EDTSSG_MEM_CNT - 1;
227      0797 2  !+
228      0798 2  | Make sure the counter agrees with the data base.
229      0799 2  |
230      0800 2
231      0801 2  IF 0
232      0802 2  THEN
233      0803 2  BEGIN
234      0804 2
235      0805 2  LOCAL
236      0806 2  COUNT,
237      0807 2  SCRptr1 : REF SCREEN_LINE;
238      0808 2  SCRptr2 : REF SCREEN_LINE;
239      0809 2
240      0810 2  COUNT = 0;
241      0811 2  SCRptr1 = .EDTSSA_FST_SCRPTR;
242      0812 2  ASSERT (.SCRptr1 [SCR_PRV_LINE] EQ 0);
243      0813 2
244      0814 2  WHILE (.SCRptr1 NEQA 0) DO
245      0815 2  BEGIN
246      0816 2  COUNT = .COUNT + 1;
247      0817 2  SCRptr2 = .SCRptr1;
248      0818 2  SCRptr1 = .SCRptr1 [SCR_NXT_LINE];
249      0819 2
250      0820 2  IF (.SCRptr1 NEQA 0)
251      0821 2  THEN
252      0822 2  BEGIN
253      0823 2  ASSERT (.SCRptr1 [SCR_PRV_LINE] EQA .SCRptr2);
254      0824 2  ASSERT (.SCRptr1 NEQA .EDTSSA_FST_SCRPTR);
255      0825 2  END;
256      0826 2
257      0827 2  END;
258      0828 2
```

```
259 0829 3      ASSERT (.SCRPTR2 EQLA EDTSSA_LST_SCRPTR);
260 0830 3      ASSERT (.COUNT EQL .EDTSSG_MEM_CNT);
261 0831 2      END;
262 0832 2
263 0833 1      END:
```

! of routine EDT\$SSC\_LNDEL

.TITLE EDT\$SCRNEWDEL EDT\$SCRNEWDEL - delete a line from the screen

.IDENT \V04-000\

.EXTRN EDTSSG\_MEM\_CNT, EDTSSA\_BOT\_SCRPTR  
.EXTRN EDTSSA\_EOB\_SCRPTR  
.EXTRN EDTSSA\_TOP\_SCRPTR  
.EXTRN EDTSSA\_CSR\_SCRPTR  
.EXTRN EDTSSA\_FST\_AVLN  
.EXTRN EDTSSA\_FST\_SCRPTR  
.EXTRN EDTSSA\_LST\_SCRPTR  
.EXTRN EDTSSINTER\_ERR

.PSECT \_EDT\$CODE,NOWRT, SHR, PIC.2

	07FC 00000		
5A	00000000G	00 9E 00002	MOVAB EDTSSA_FST_AVLN, R10
59	00000000G	00 9E 00009	MOVAB EDTSSA_CSR_SCRPTR, R9
58	00000000G	00 9E 00010	MOVAB EDTSSA_BOT_SCRPTR, R8
57	00000000G	00 9E 00017	MOVAB EDTSSA_TOP_SCRPTR, R7
56	00000000G	00 9E 0001E	MOVAB EDTSSA_EOB_SCRPTR, R6
55	00000000G	00 9E 00025	MOVAB EDTSSA_FST_SCRPTR, R5
54	00000000G	00 9E 0002C	MOVAB EDTSSA_LST_SCRPTR, R4
51	04	AC D0 00033	MOVL SCRPTR, R1
52		61 7D 00037	MOVQ (R1), PREV_ADDR
51		65 D1 0003A	CMPL EDTSSA_FST_SCRPTR, R1
		08 12 0003D	BNEQ 1\$
65		53 D0 0003F	MOVL NXT_ADDR, EDTSSA_FST_SCRPTR
50		65 D0 00042	MOVL EDTSSA_FST_SCRPTR, R0
		60 D4 00045	CLRL (R0)
64		51 D1 00047 1\$:	CMPL R1, EDTSSA_LST_SCRPTR
		09 12 0004A	BNEQ 2\$
64		52 D0 0004C	MOVL PREV_ADDR, EDTSSA_LST_SCRPTR
50		64 D0 0004F	MOVL EDTSSA_LST_SCRPTR, R0
	04	A0 D4 00052	CLRL 4(R0)
51		66 D1 00055 2\$:	CMPL EDTSSA_EOB_SCRPTR, R1
		02 12 00058	BNEQ 3\$
51		66 D4 0005A	CLRL EDTSSA_EOB_SCRPTR
		67 D1 0005C 3\$:	CMPL EDTSSA_TOP_SCRPTR, R1
51		02 12 0005F	BNEQ 4\$
		67 D4 00061	CLRL EDTSSA_TOP_SCRPTR
51		68 D1 00063 4\$:	CMPL EDTSSA_BOT_SCRPTR, R1
		02 12 00066	BNEQ 5\$
51		68 D4 00068	CLRL EDTSSA_BOT_SCRPTR
		69 D1 0006A 5\$:	CMPL EDTSSA_CSR_SCRPTR, R1
51		02 12 0006D	BNEQ 6\$
		69 D4 0006F	CLRL EDTSSA_CSR_SCRPTR
52		52 D5 00071 6\$:	TSTL PREV_ADDR
		04 13 00073	BEQL 7\$

EDT\$SCRNEWDEL EDT\$SCRNEWDEL - delete a line from the screen 16-Sep-1984 01:37:42 VAX-11 Bliss-32 V4.0-742  
VO4-000 EDT\$SSC\_LNDEL - delete a line from the screen 14-Sep-1984 12:24:34 [EDT.SRC]SCRNEWDEL.BLI;1

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EDT  
VO4

04	A2	53	D0 00075	MOVL	NXT_ADDR, 4(PREV_ADDR)
		52	D5 00079	TSTL	NXT_ADDR
		03	13 0007B	BEOL	8\$
04	63	52	D0 0007D	MOVL	PREV_ADDR, (NXT_ADDR)
	A1	6A	D0 00080	MOVL	EDTSSA_FSF_AVLN, 4(R1)
	61	01	CE 00084	MNEG	#1, (RT)
	6A	51	D0 00087	MOVL	R1, EDTSSA_FST_AVLN
		00000000G	00 D7 0008A	DECL	EDT\$G_MEM_CNT
			04 00090	RET	

: 0786  
: 0793  
: 0794  
: 0795  
: 0796  
: 0833

: Routine Size: 145 bytes, Routine Base: \_EDT\$CODE + 0000

: 264 0834 1  
: 265 0835 1 !<BLF/PAGE>

EDT\$SCRNEWDEL  
VO4-000

EDT\$SCRNEWDEL - delete a line from the screen  
EDT\$SC\_LNDEL - delete a line from the screen

6 5  
16-Sep-1984 01:37:42  
14-Sep-1984 12:24:34

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]SCRNEWDEL.BLI;1

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: 267 0836 1 END  
: 268 0837 1  
: 269 0838 0 ELUDOM

! of module EDT\$SCRNEWDEL

EDT  
VO4

#### PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	145	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

#### Library Statistics

File	-----	Symbols	-----	Pages	Processing
	Total	Loaded	Percent	Mapped	Time
-\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	12	3	40	00:00.2
-\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1

#### COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LISS:SCRNEWDEL/OBJ=OBJ\$:SCRNEWDEL MSRC\$:SCRNEWDEL.BLI/UPDATE=(ENHS:\$  
CRNEWDEL)

: Size: 145 code + 0 data bytes  
: Run Time: 00:14.8  
: Elapsed Time: 00:19.6  
: Lines/CPU Min: 3390  
: Lexemes/CPU-Min: 12133  
: Memory Used: 98 pages  
: Compilation Complete

0139 AH-BT13A-SE  
VAX/VMS V4.0

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